

JUN 24 2003

TECH CENTER 1600



1600

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/853,897

DATE: 06/18/2003

TIME: 17:31:38

Input Set : A:\2003-06-10 3759-0122P.ST25.txt

Output Set: N:\CRF4\06182003\I853897.raw

3 <110> APPLICANT: HAMILTON et al.  
5 <120> TITLE OF INVENTION: METHOD OF DETECTING INTERACTIONS BETWEEN PROTEINS, PEPTIDES  
OR LIBRARIES

6 THEREOF USING FUSION PROTEINS  
8 <130> FILE REFERENCE: 3759-0122P  
10 <140> CURRENT APPLICATION NUMBER: US 09/853,897  
11 <141> CURRENT FILING DATE: 2001-05-14  
13 <150> PRIOR APPLICATION NUMBER: US 60/203,712  
14 <151> PRIOR FILING DATE: 2000-05-12  
17 <160> NUMBER OF SEQ ID NOS: 9  
19 <170> SOFTWARE: PatentIn version 3.1  
21 <210> SEQ ID NO: 1  
22 <211> LENGTH: 29  
23 <212> TYPE: PRT  
24 <213> ORGANISM: Artificial Sequence  
26 <220> FEATURE:  
27 <223> OTHER INFORMATION: Designed leucine zipper (NZ)  
30 <400> SEQUENCE: 1  
31 Ala Leu Lys Lys Glu Leu Gln Ala Asn Lys Lys Glu Leu Ala Gln Leu  
32 1 5 10 15  
35 Lys Trp Glu Leu Gln Ala Leu Lys Lys Glu Leu Ala Gln  
36 20 25  
39 <210> SEQ ID NO: 2  
40 <211> LENGTH: 30  
41 <212> TYPE: PRT  
42 <213> ORGANISM: Artificial Sequence  
44 <220> FEATURE:  
45 <223> OTHER INFORMATION: Designed leucine zipper (CZ)  
47 <400> SEQUENCE: 2  
48 Glu Gln Leu Glu Lys Lys Leu Gln Ala Leu Glu Lys Lys Leu Ala Gln  
49 1 5 10 15  
52 Leu Glu Trp Lys Asn Gln Ala Leu Glu Lys Lys Leu Ala Gln  
53 20 25 30  
56 <210> SEQ ID NO: 3  
57 <211> LENGTH: 162  
58 <212> TYPE: PRT  
59 <213> ORGANISM: Artificial Sequence  
61 <220> FEATURE:  
62 <223> OTHER INFORMATION: Synthetic peptide sequence NGFP  
64 <400> SEQUENCE: 3  
65 Met Ala Ser Lys Gly Glu Glu Leu Phe Thr Gly Val Val Pro Leu Leu  
66 1 5 10 15  
69 Val Glu Leu Asp Gly Asp Val Asn Gly His Lys Phe Ser Val Ser Gly  
70 20 25 30

# ENTERED

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73 Glu Gly Gly Asp Ala Thr Tyr Gly Lys Leu Thr Leu Lys Phe Ile Cys
74           35           40           45
77 Thr Thr Gly Lys Leu Pro Val Pro Trp Pro Leu Thr Val Thr Thr Leu
78           50           55           60
81 Cys Tyr Gly Val Gln Cys Phe Ser Arg Tyr Pro Asp His Met Lys Arg
82 65           70           75           80
85 His Asp Phe Phe Lys Ser Ala Met Pro Glu Gly Tyr Val Gln Glu Arg
86           85           90           95
89 Thr Ile Phe Phe Lys Asp Asp Gly Asn Tyr Lys Thr Arg Ala Glu Val
90           100          105          110
93 Lys Phe Glu Gly Asp Thr Leu Val Asn Arg Ile Glu Leu Lys Gly Ile
94           115          120          125
97 Asp Phe Lys Glu Asp Gly Asn Ile Leu Gly His Lys Leu Glu Tyr Asn
98           130          135          140
101 Tyr Asn His Asn Val Leu Ile Met Ala Asp Lys Gln Gly Gly Ser Gly
102 145           150           155           160
105 Ser Gly
109 <210> SEQ ID NO: 4
110 <211> LENGTH: 192
111 <212> TYPE: PRT
112 <213> ORGANISM: Artificial Sequence
114 <220> FEATURE:
115 <223> OTHER INFORMATION: Synthetic peptide sequence NZGFP
117 <400> SEQUENCE: 4
118 Met Ala Ser Lys Gly Glu Glu Leu Phe Thr Gly Val Val Pro Ile Leu
119 1           5           10           15
122 Val Glu Leu Asp Gly Asp Val Asn Gly His Lys Phe Ser Val Ser Gly
123           20           25           30
126 Glu Gly Glu Gly Asp Ala Thr Tyr Gly Lys Leu Thr Leu Lys Phe Ile
127           35           40           45
130 Cys Thr Thr Gly Lys Leu Pro Val Pro Trp Pro Thr Leu Val Thr Thr
131           50           55           60
134 Leu Cys Tyr Gly Val Gln Cys Phe Ser Arg Tyr Pro Asp His Met Lys
135 65           70           75           80
138 Arg His Asp Phe Phe Lys Ser Ala Met Pro Glu Gly Tyr Val Gln Glu
139           85           90           95
142 Arg Thr Ile Phe Phe Lys Asp Asp Gly Asn Tyr Lys Thr Arg Ala Glu
143           100          105          110
146 Val Lys Phe Glu Gly Asp Thr Leu Val Asn Arg Ile Glu Leu Lys Gly
147           115          120          125
150 Ile Asp Phe Lys Glu Asp Gly Asn Ile Leu Gly His Lys Leu Glu Tyr
151           130          135          140
154 Asn Tyr Asn His Asn Val Leu Ile Met Ala Asp Lys Gln Gly Gly Ser
155 145           150           155           160
158 Gly Ser Gly Ala Leu Lys Lys Glu Leu Gln Ala Asn Lys Lys Glu Leu
159           165          170          175
162 Ala Gln Leu Phe Trp Glu Leu Gln Ala Leu Lys Lys Glu Leu Ala Gln
163           180          185          190
166 <210> SEQ ID NO: 5

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167 <211> LENGTH: 87
168 <212> TYPE: PRT
169 <213> ORGANISM: Artificial Sequence
171 <220> FEATURE:
172 <223> OTHER INFORMATION: Synthetic peptide sequence CGFP
175 <400> SEQUENCE: 5
176 Met Ala Ser Gly Gly Ser Gly Lys Asn Gly Ile Lys Val Asn Phe Lys
177 1          5          10          15
180 Thr His Asn Ile Glu Asp Gly Ser Val Gln Leu Ala Asp His Tyr Gln
181          20          25          30
184 Gln Asn Thr Pro Ile Gly Asp Gly Pro Val Leu Leu Pro Asp Asn His
185          35          40          45
188 Tyr Leu Ser Thr Gln Ser Ala Leu Ser Lys Asp Pro Asn Glu Lys Arg
189          50          55          60
192 Asp His Met Val Leu Leu Glu Phe Val Thr Ala Ala Gly Ile Thr His
193 65          70          75          80
196 Gly Met Asp Glu Leu Tyr Asn
197          85
200 <210> SEQ ID NO: 6
201 <211> LENGTH: 118
202 <212> TYPE: PRT
203 <213> ORGANISM: Artificial Sequence
205 <220> FEATURE:
206 <223> OTHER INFORMATION: Synthetic peptide sequence CZGFP
208 <400> SEQUENCE: 6
209 Met Ala Ser Glu Gln Leu Glu Lys Lys Leu Gln Ala Leu Glu Lys Lys
210 1          5          10          15
213 Leu Ala Gln Leu Glu Trp Lys Asn Gln Ala Leu Glu Lys Lys Leu Ala
214          20          25          30
217 Gln Gly Gly Ser Gly Lys Asn Gly Ile Lys Val Asn Phe Lys Thr Arg
218          35          40          45
221 His Asn Ile Glu Asp Gly Ser Val Gln Leu Ala Asp His Tyr Gln Gln
222          50          55          60
225 Asn Thr Pro Ile Gly Asp Gly Pro Val Leu Leu Pro Asp Asn His Tyr
226 65          70          75          80
229 Leu Ser Thr Gln Ser Ala Leu Ser Lys Asp Pro Asn Glu Lys Arg Asp
230          85          90          95
233 His Met Val Leu Leu Glu Phe Val Thr Ala Ala Gly Ile Thr His Gly
234          100         105         110
237 Met Asp Glu Leu Tyr Asn
238          115
241 <210> SEQ ID NO: 7
242 <211> LENGTH: 29
243 <212> TYPE: PRT
244 <213> ORGANISM: Artificial Sequence
246 <220> FEATURE:
247 <223> OTHER INFORMATION: Leucine zipper KK
249 <400> SEQUENCE: 7
250 Ala Gln Leu Lys Glu Lys Leu Gln Ala Leu Lys Glu Lys Leu Ala Gln

```

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```

251 1          5          10          15
254 Lys Trp Lys Leu Asn Ala Leu Lys Glu Lys Leu Ala Gln
255          20          25
258 <210> SEQ ID NO: 8
259 <211> LENGTH: 29
260 <212> TYPE: PRT
261 <213> ORGANISM: Artificial Sequence
263 <220> FEATURE:
264 <223> OTHER INFORMATION: Leucine zipper EE
266 <400> SEQUENCE: 8
267 Ala Leu Glu Lys Glu Leu Gln Ala Asn Glu Lys Glu Leu Ala Gln Leu
268 1          5          10          15
271 Glu Trp Glu Leu Gln Ala Leu Glu Lys Glu Leu Ala Gln
272          20          25
275 <210> SEQ ID NO: 9
276 <211> LENGTH: 6
277 <212> TYPE: PRT
278 <213> ORGANISM: Artificial Sequence
280 <220> FEATURE:
281 <223> OTHER INFORMATION: Synthetic sequence used as an insert between adjacent
residues at 10
282          internal insertion sites
284 <400> SEQUENCE: 9
285 Leu Glu Glu Phe Gly Ser
286 1          5

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RAW SEQUENCE LISTING ERROR SUMMARY  
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Input Set : A:\2003-06-10 3759-0122P.ST25.txt  
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Invalid Line Length:

The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:1; Line(s) 5

**VERIFICATION SUMMARY**

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